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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,856	12/29/2005	Pentti Karhunen	0365-0642PUS1	7326	
2292 RIDCH STEW	7590 05/31/200 ART KOLASCH & BI	EXAMINER			
PO BOX 747		LEE, BENNY T			
FALLS CHUR	CH, VA 22040-0747		ART UNIT	PAPER NUMBER	
			2817		
			·		
			NOTIFICATION DATE	DELIVERY MODE	
			05/31/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

,	· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
Office Action Summary		10/542,856	KARHUNEN, PI	KARHUNEN, PENTTI			
		Examiner	Art Unit				
		Benny Lee	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHICHEVER IS LONGER, - Extensions of time may be available after SIX (6) MONTHS from the maili - If NO period for reply is specified abo	FROM THE MAILING D. under the provisions of 37 CFR 1.1 ng date of this communication. ove, the maximum statutory period anded period for reply will, by statute than three months after the mailing	ATE OF THIS COMING 36(a). In no event, however, will apply and will expire SIX to cause the application to be	may a reply be timely filed (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to commu	unication(s) filed on	·					
2a) This action is FINAL .		action is non-final.					
3) Since this application	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-3</u> is/are pe	nding in the application.			•			
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1,2; 3</u> is/are allowed.							
6) Claim(s) _ is/are							
7) Claim(s) is/are	•						
8) Claim(s) are su	ubject to restriction and/o	r election requireme	nt.				
Application Papers			•				
9)⊠ The specification is ob	iected to by the Examine	er.					
10)⊠ The drawing(s) filed or	-		objected to by the Examiner	•			
			abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
•							
Attachment(s)		•					
1) Notice of References Cited (PTC	9-892)		erview Summary (PTO-413)				
2) Notice of Draftsperson's Patent [Drawing Review (PTO-948)	Par	per No(s)/Mail Date tice of Informal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

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This application is in condition for allowance except for the following formal matters:

In the Specification:

The disclosure is objected to because of the following informalities: Note that subheading for delineating the different portions of the specification should be provided for clarity of description. Page 1, first full paragraph and page 2, third & fourth full paragraphs, note that reference to "the preamble of Claim 1", the "characterizing portion of Claim 1" and the "characterizing portion of Claim 3" are inappropriate descriptions and should be deleted therefrom. Page 1, penultimate paragraph, note that "the said" should be rewritten as just "the" (i.e. "said" should be deleted). Page 4, first full paragraph, note that "summing unit 5" and "summing amplifier 5" need to be rewritten such as to be of consistent terminology. In the description of "fig. 3", note that a description of what each curve in the graph represents needs to be provided for clarity of description. Appropriate correction is required.

The abstract of the disclosure is objected to because of the following: Note that the reference to the "publication" is inappropriate and should be corrected and note that the reference to "(Figure 2)" is inappropriate and should be deleted. Correction is required. See MPEP § 608.01(b).

In the Drawings:

The drawings are objected to because of the following: In Fig. 1, note that the drawing figure needs to be designated as --PRIOR ART-- for consistency with the specification description. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet,

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even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In the Claims:

In claims 1, 3, note that the terminology "the divisions" should be rewritten as just --divisions-- such as to avoid potential antecedent basis problems. Similarly, note that the terminology "the nominal wavelength" has been found objectionable since it has not been associated with a corresponding frequency of any signal. Also, note that --of the other transmission line-- is suggested for consistency in claim terminology.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Ouavle*, 25 USPO 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Claims 1, 2; 3 are allowable over the prior art of record since none of the prior art teaches or fairly suggests feeding an antenna array by using two parallel transmission lines, which are (1)

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fed from opposite ends; and (2) having divisions on one of the transmission lines which are smaller than the nominal wavelength while having divisions on the other transmission line which are greater than the nominal wavelength.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

McKay discloses plural parallel transmission having plural combined outputs, but does not teach feeding each transmission line from a different end and does not teach different divisions on the respective transmission lines.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 571 272 1764.

B. Lee

BENNY T. LEE PRIMARY EXAMINER ART UNIT 2817